TX-NR737 7.2-Channel Network A/V Receiver

Dolby Atmos Upgradable

BLACK SILVER

Microphone for AccuEQ

THX® Cinema-Reference Amplification Meets Dolby Atmos® Sound

Step up to THX-certified surround sound with the TX-NR737—the most potent and future-ready A/V receiver in its class. With a high-current massive transformer, discrete Three-Stage Inverted Darlington Circuitry amplification, and extremely robust construction, this heavyweight is ideal for showcasing the latest movies mixed in Dolby Atmos*. This exciting multidimensional format places and moves sound above and around the audience, bringing movies to life with stunning detail, depth, and clarity. There are 4K/60 Hz-capable HDMI® inputs and HDCP 2.2 support for streaming Ultra HD video and 4K gaming at 60 fps. Also included is Qdeo™ 4K upscaling technology so you can enjoy DVDs and console games in up to 4K resolution. Music lovers can choose from a huge selection of internet music services and stream almost any 192/24 hi-res, lossless, or compressed file format (including 5.6 MHz DSD) from network-attached devices using built-in Wi-Fi® and our free remote app, or stream instantly with DSP-enhanced Bluetooth. Combining these features with class-leading sound quality and an easy-to-use GUI, the TX-NR737 delivers the very latest studio-master entertainment at an affordable price.

Firmware update required.

ADVANCED FEATURES

- Supports New Dolby Atmos® Format for Exciting Multidimensional Sound
- THX® Select2™ Plus Certified for Cinema Reference Sound
- 4K/60 Hz-Capable HDMI® Terminals for Ultra HD Entertainment*1
- Supports HDCP 2.2 for Future 4K/Full HD Video Streaming and Broadcast*2
- Built-in Wi-Fi® Certified Wireless LAN Capability
- Bluetooth Version 2.1 + EDR Capability (Compatible Profile: A2DP v1.2, AVRCP v1.3) with Advanced Music Optimizer DSP Technology
- Three-Stage Inverted Darlington Circuitry on All Channels
- HDMI® Video Upscaling to 4K with Qdeo™ Processing Technology by Marvell
- Internet Radio and Music Streaming Subscription Services Included (TuneIn Radio, Pandora®, Spotify, AUPEO!, and Deezer)*3
- Playback Compressed, Lossless, and Hi-res Audio via Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, Apple Lossless, DSD 5.6 MHz, LPCM*4, and Dolby® TrueHD)
- Proprietary AccuEQ Room Calibration with Mic Included
- Advanced Music Optimizer to Improve Compressed Digital Audio Quality (Bluetooth Included)
- Control and Stream with Free Onkyo Remote Streaming Apps for iPod touch/iPhone*5 and Android Devices*6
- Frontside MHL™ for 1080p Video and Stills from Smartphone and Tablet
- Overlaid Input Source Preview with InstaPrevue™ Technology
- PM Bass Boost for Deep Bass and Clear Mid-Range
- Powered Zone 2 and Zone 2/3 Line-Outs for Distributed Audio Playback
- Whole House Mode for Synchronized Housewide Audio
- Bi-Amping Capability for Front Channels

**1 4K/60 Hz video is supported on HDMI inputs 1/2/3/4, the frontside input, Main Out, and Sub Out. *2 HDCP 2.2 is supported on HDMI Input 3 and Main Out only. *3 Availability of services depends on region. Some services may require a paid subscription and firmware update. Availability of third-party services advertised here is accurate at the time of publication, but may be subject to change without notice. *4 LPCM is supported via DLNA only. *5 Compatible with iPod touch (3rd generation or later) and iPhone 3GS or later. All models require iOS 4.2 or later. *6 Requires Android OS 2.1 or later.*

AMPLIFIER FEATURES

- 170 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC); 185 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
- WRAT (Wide Range Amplifier Technology)
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Discrete Output Stage Circuitry
- Optimum Gain Volume Circuitry
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for S/PDIF Audio

PROCESSING FEATURES

- HDMI for 4K/60 Hz Video, 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby Atmos®, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- TI Burr-Brown 192 kHz/24-Bit DAC (8 Channels x 1)
- Dual 32-Bit Digital Signal Processing Engines
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Theater-Dimensional Virtual Surround Function
- Direct Mode
- Pure Audio Mode
- Double Bass Function
- Non-Scaling Configuration
- A-Form Listening Mode Memory

CONNECTION FEATURES

- 7 HDMI Inputs (1 Front/6 Rear) and 2 Outputs
- USB Port (Front)
- Mass Storage Class USB Memory Playback Capability
- HDTV-Capable (720p/1080i) Component Video Switching (1 Input and 1 Output)
- 3 Composite Video Inputs and 1 Output
- 3 Digital Audio Inputs (1 Optical and 2 Coaxial)
- 6 Analog Audio Inputs
- Phono Input for Turntable Connection
- 2 Parallel Subwoofer Pre-Outs
- Color-Coded, Banana Plug-Compatible Speaker Posts

OTHER FEATURES

- Independent Crossover Adjustment for Each Channel (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control (Up to 800 ms in 10 ms Steps at 48 kHz)
- Graphical Overlaid On-Screen Display (OSD) via HDMI with Quick Set-Up and Home Menu
- Hybrid Standby Function with HDMI Passthrough
- Smart Grid-Ready
- Tone Control (Bass/Treble) for Front L/R Channels
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- RDS (PS/RT/PTY/TP) (European Model Only)
- 40 FM/AM Random Presets
- Certified with DLNA Version 1.5
- Firmware Updates via Ethernet and USB
- RIHD (Remote Interactive Over HDMI) for System Control
- Preprogrammed RI (Remote Interactive) Remote Control

TX-NR737 7.2-Channel Network A/V Receiver

Dolby Atmos® Multidimensional Sound

Onkyo is among the first to introduce Dolby Atmos sound to home cinemas. Dolby Atmos uses object-oriented mixing techniques to layer independent audio elements through discrete channels, placing and moving sound effects above and around the listener with astonishing realism. The format adapts to any home cinema layout augmented by two or more in-ceiling height speakers or Dolby Atmos-enabled front speakers to bring sound alive from all directions.

THX® Select2™ Plus for Reference-Level Sound

THX certification guarantees the same high volume, low-distortion sound you experience in a commercial cinema in your listening room. Your TX-NR737 receiver passed more than 2,000 laboratory tests covering 14,000 data points to ensure every aspect of audio performance meets rigorous THX standards for cinema-reference sound. THX Select2 Plus is recommended for screen-to-seat viewing distances of three to four meters.

Engineered for High Fidelity

WRAT (Wide Range Amplifier Technology) is all about high current. You need it to stay in control when speaker impedance fluctuates, and to grip without clipping as the soundtrack explodes into action. We use a massive high-power transformer driving low-distortion Three-Stage Inverted Darlington Circuitry on all channels to create a dynamic and engaging sound. Combined with high-resolution processing, the TX-NR737 packs a punch for movies while retaining finesse and musicality for two-channel playback.

Future-Ready with the Latest HDMI®

Play the latest RPG blockbuster on your Ultra HDTV at a breathtaking 60 frames per second with 7.2-channel surround sound from Onkyo. With five of the seven HDMI inputs supporting 4K/60 Hz, this dream can become reality with the TX-NR737. Even if you're not planning on upgrading to a 4K display right away, it's good to know your receiver is ready for it.

Supports HDCP 2.2 for 4K Streaming and TV

With Hollywood studios, satellite TV broadcasters, and video streaming services moving to HDCP 2.2 copy protection for future 4K and Full HD releases, it's important your A/V receiver can handle this new standard. The TX-NR737 is one of the first A/V receivers to support HDCP 2.2, making it ready for the next generation of home entertainment.

4K Video Upscaling with Qdeo™ Technology

The TX-NR737 features Qdeo™ technology from Marvell to upscale low-res video to liquid-smooth 1080p (for HDTV) and 4K (3840 x 2160 pixels) with a compatible display. This means video from older gaming consoles and DVD players looks sharp and clean, giving old favorites a new lease on life.

Wi-Fi® and Bluetooth Inside

The TX-NR737 has Wi-Fi and Bluetooth technology built in. Download our free control app and you've got a graphic remote control and range of streaming options in the palm of your hand. Or pair your Bluetooth-capable device and send almost any audio to your home cinema. With Advanced Music Optimizer enhancement, music via Bluetooth never sounded this good.

Stream Direct from Smartphone and Tablet

For lossless audio streaming, tap on the Onkyo Remote App icon on your smartphone to find your music loaded and ready to stream with familiar song organization and playback controls. The receiver can switch on and select your preferred listening mode automatically.

Stream Network-Attached Hi-res Audio

Onkyo A/V receivers are engineered for universal hi-res compatibility and ease of use. Use the remote app to locate your 192/24 and 96/24 albums (including 5.6 MHz DSD) on PC or NAS and bask in the clarity, depth, and detail of high-resolution music.

Built-in Internet Radio and Streaming

If you can think of it, you'll most likely be able to stream it. The receiver includes Spotify, AUPEO!, TuneIn, and now Deezer, the music subscription service available in over 200 countries and boasting a library of 30 million songs which you can browse using the remote app.

Play Lossless Music from USB

The front-panel USB port also plays almost any audio format from mass-storage-class drives. As well as compressed files, there's support for FLAC, WAV, ALAC, Dolby® TrueHD (48 kHz), and DSD.

Connect with MHL™

An HDMI/MHL terminal is included to connect smartphones and other electronic devices, allowing you to display 1080p video and other media on your HDTV with 7.1 channels of surround sound.

Powered Multi-Zone Audio and Bi-Amping

Powered Zone 2 speaker terminals (and Zone 2/3 line-outs) let you power audio in another room equipped with speakers. You can also assign surround back channels to bi-amp your front loudspeakers.

Fast Switching and Adjustment

To quickly adjust a speaker level or switch DSP modes, use the "Q" button on the remote control to overlay a transparent menu on screen. InstaPrevue™ technology is available via the Home button to preview content on any HDMI-connected device.

AccuEQ Room Calibration

AccuEQ optimizes surround-sound and two-channel audio to suit your listening space. In particular, AccuEQ extracts the best possible performance from your front speakers to make stereo listening more dynamic and exciting. The system analyzes speaker setup and room acoustics from one listening position (which simplifies the calibration process) and optimizes frequency response and output levels for maximum clarity.

SPECIFICATIONS

Amplifier Section	
Power Output	
All Channels	170 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 185 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Dynamic Power	250 W (3 Ω, Front) 220 W (4 Ω, Front) 130 W (8 Ω, Front)
THD+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, Half Power)
Damping Factor	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)
Rated RCA Output Level and Impedance	200 mV/2.2 kΩ (Line Out)
Maximum RCA Output Level and Impedance	2.0 V/2.2 kΩ (Line Out)
Phono Overload	70 mV (MM, 1 kHz, 0.5%)
Frequency Response	5 Hz–100 kHz/+1 dB, -3 dB (Direct Mode)
Tone Control	±10 dB, 30 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)
Speaker Impedance	4 Ω – 16 Ω or 6 Ω – 16 Ω
Video Section	
Input Sensitivity/Output Level and Impedance	
Video	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component PB/CB, PR/CR) 1.0 Vp-p/75 Ω (Composite)
Component Video Frequency Response	5 Hz–100 MHz/+0 dB, -3 dB
Tuner Section	
Tuning Frequency Range	
FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz 530 kHz–1,710 kHz
FM/AM Preset Memory	40 Stations
General	
Power Supply	AC 220–240 V~, 50/60 Hz
Power Consumption	690 W
No-Sound Power Consumption	80 W
Standby Power Consumption	0.15 W
Dimensions (W x H x D)	435 x 175 x 379 mm
Weight	11.5 kg

CARTON

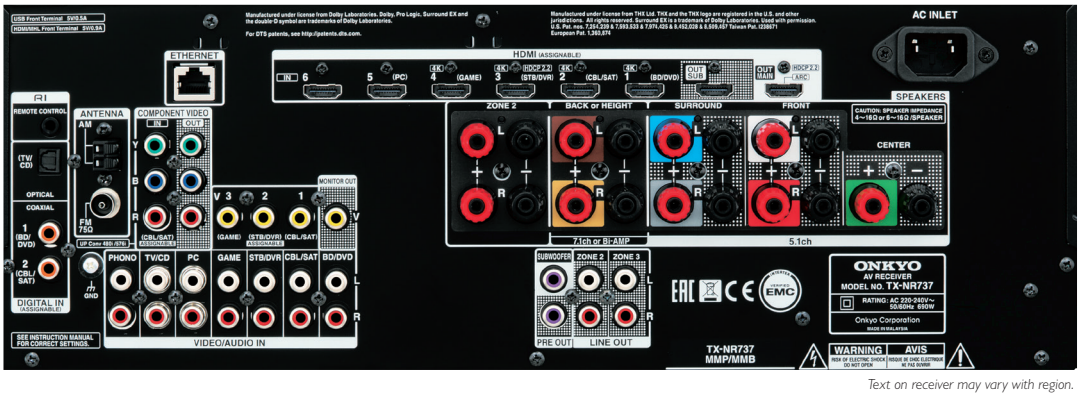
Dimensions (W x H x D)	570 x 298 x 469 mm
Weight	14.5 kg

Supplied Accessories

• Indoor FM antenna • Antenna isolator* • AM loop antenna • Color labels for speaker cables • Speaker setup microphone • Instruction manual • Remote controller • AA (R6) batteries** x 2

*Included with Chinese model only.

**Not included with Chinese model.



Text on receiver may vary with region.

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